

AMENDMENTS TO THE CLAIMS

Claim 1 (Currently amended). An electrode-interface system comprising
an electrode structure having a circumferential array of electrodes adapted to create a
corresponding circumferential pattern of lesions, the electrode structure being associated with a
sensor adapted to monitor a surface tissue temperature condition of tissue heated by each of the
electrodes, the electrodes, in use, being deployed in contact with a tissue region,

an interface for association with an the electrode structure having a circumferential array of
electrodes adapted to create a corresponding circumferential pattern of lesions, the electrode
structure being associated with a sensor adapted to monitor a surface tissue temperature condition
of tissue heated by each of the electrodes, the electrodes, in use, being deployed in contact with a
tissue region, the interface comprising an input adapted to be attached to the sensor, a display
screen, and an operating system to generate concurrently viewable images on the display screen, the
viewable images comprising an idealized image of the electrode structure which spatially models the
particular circumferential array of electrodes and a second image that displays concurrently for each
electrode changes in the monitored surface tissue temperature at each electrode over time.

Claim 2 (Currently amended). An interface A system as in claim 1
wherein the second image comprises a numeric display of surface tissue temperature
magnitude.

Claim 3 (Currently amended). An interface A system as in claim 1
wherein the second image comprises a color display that varies according to relation of the
surface tissue temperature condition to prescribed criteria.

Claim 4 (Currently amended). An interface A system as in claim 1, further comprising
a data output to process the monitored surface temperature condition as data for storage or
manipulation.

Claim 5 (Currently amended). An interface A system as in claim 4
wherein the data output communicates with a storage medium to save the data.

Claim 6 (Currently amended). An interface A system as in claim 4
wherein the data output communicates with a printer to print the data.

Claim 7 (Currently amended). An interface A system as in claim 1
wherein the viewable images on the display screen include an animated image.